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### 1. [16.1-FH1: Technological Enhancements to Improve and Expand Casual Carpooling Systems](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Traditional carpooling declined in the United States from a 20% mode share in 1980 to 13% in 1990, and then to 10% in 2004, after which it has remained stable at this low level. A variation on the traditional carpool, casual carpooling, occurs in three U.S. metropolitan areas (Washington, D.C., San Francisco, and Houston) and may be an important strategy to help reverse this downward trend. While ...

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### 2. [16.1-FH2: Connected Bicycle: Communicating with Vehicles and Infrastructure](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

The connected vehicles program is a multimodal U.S. DOT initiative that applies the potentially transformative capabilities of wireless technology to make surface transportation safer, smarter, and greener. One of the emerging technologies for vehicle-to-infrastructure (V2I) and vehicle-to-vehicle (V2V) communication is Dedicated Short Range Communications (DSRC). DSRC can support communication bet ...

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### **[3. 16.1-FT1: Pedestrian and Cyclist Detection Devices for Transit Buses](#)**

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Data are limited about the full extent of bicycle and pedestrian use, but the evidence indicates that the use of these modes is on the rise. Data from the National Household Travel Survey (NHTS) from 2001 and 2009, a period during which bicyclist and pedestrian fatalities was decreasing, identified a slight increase in walking, and almost no change in the number of people bicycling. Although NHTS ...

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### **[4. 15.1-FH1: Driver Engagement/Status Monitoring Technologies for Vehicle Automation Applications](#)**

Release Date: 01-06-2015 Open Date: 01-06-2015 Due Date: 03-09-2015 Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH1 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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### **[5. 15.1-FH2: Community College- Technical School Intelligent Transportation Systems \(ITS\) Curricula](#)**

Release Date: 01-06-2015 Open Date: 01-06-2015 Due Date: 03-09-2015 Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH2 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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### **[6. 15.1-FH3: Roadway Hazard Alert System for Motorcycles](#)**

Release Date: 01-06-2015 Open Date: 01-06-2015 Due Date: 03-09-2015 Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH3 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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### **[7. 15.1-FH4: From Vehicle Performance to Transportation System Performance- Systems Impacts of Automated Vehicles](#)**

Release Date: 01-06-2015 Open Date: 01-06-2015 Due Date: 03-09-2015 Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FH4 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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**8. [15.1-FR1: Wireless Compatible Digital Train Line \(WiDTL\) for Passenger Type Vehicles in a Train Consist](#)**

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FR1 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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**9. [15.1-FR2: Active Personal Safety System for Train Yard and Road Crewworkers](#)**

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FR2 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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**10. [15.1-FR3: Next Generation Freight Truck for Autorack Cars](#)**

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

DOT SBIR DTRT57-15-R-SBIR1 1 15.1-FR3 DOT SBIR DTRT57-15-R-SBIR1 1 ...

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